

# ULTRASONIC VEIN DETECTOR AND RELATING METHOD

## Abstract

An ultrasonic vein detector for detecting the position of a vein in a specific part of an examinee includes an ultrasonic emitter having an oscillator for generating indicative pulse ultrasonic signals toward the examinee, a pulse presser for applying pulse stress signals in a frequency different from the heartbeat of the examinee, an ultrasonic sensor for sensing reflected waves of the indicative pulse ultrasonic signals on every reflecting point and converting them into electrical signals, and a microprocessor for receiving the electrical signals from the ultrasonic sensor and calculating the Doppler shift of the electrical signals generated from the reflected waves in order to find the reflecting points corresponding to the pulse stress signals.